

## [METHOD OF MOTION DETECTION FOR 3D COMB FILTER VIDEO DECODER]

### Abstract

A method of motion detection for a 3D comb filter video decoder is disclosed. In this method, a plurality of sampled data  $F_m P_{x,y}$  is obtained and temporarily stored after a composite video signal is sampled, wherein  $F_m P_{x,y}$  represents a sampled data of the

$y^{th}$  pixel on the  $x^{th}$  line of the  $m^{th}$  frame inside the composite video signal, and  $m, x, y$  are positive integers greater than or equal to 0. Then,  $F_{m+1} P_{x,y}, F_m P_{x,y}, F_{m-1} P_{x,y}$ , and  $F_{m-2} P_{x,y}$  are used to determine a motion/still status of the composite video signal. Since the present invention performs the motion detection according to the composite video signal whose Y/C has not been separated yet, the present invention can accurately determine the motion level.